Corrigendum: Limit Process of Stationary TASEP near the Characteristic Line

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In the original paper, the function $g_m(\tau, s)$ defined in equation (1.11) contained a sign error in the second term. In the original paper, equation (1.11) read

$$g_m(\tau, s) = \mathcal{R} + \langle \rho P_s \Phi, P_s \Psi \rangle$$

$$= \mathcal{R} + \sum_{i=1}^{m} \sum_{j=1}^{m} \int_{s_i}^{\infty} dx \int_{s_j}^{\infty} dy \, \Psi_j(y) \rho_{j,i}(y, x) \Phi_i(x).$$

This should be changed to

$$g_m(\tau, s) = \mathcal{R} - \langle \rho P_s \Phi, P_s \Psi \rangle$$

(0.1)
$$= \mathcal{R} - \sum_{i=1}^{m} \sum_{j=1}^{m} \int_{s_i}^{\infty} dx \int_{s_j}^{\infty} dy \, \Psi_j(y) \rho_{j,i}(y, x) \Phi_i(x).$$

The function $g_m(\tau, s)$ is a limit of

(0.2)
$$-\langle (\mathbb{1} - P_u \overline{K} P_u)^{-1} P_u F, P_u g \rangle + R_{a,b}$$

given in formula (3.5), where we need to substitute $b = -a$. The term $R_{a,b}$ converges to $\mathcal{R}$ by Lemma 4.6. On the other hand, the term

$$\langle (\mathbb{1} - P_u \overline{K} P_u)^{-1} P_u F, P_u g \rangle$$

converges to $\langle \rho P_s \Phi, P_s \Psi \rangle$ from Lemma 4.7, Lemma 4.8, Lemma 4.9, and Lemma 4.10. In the original paper, the minus sign in (0.2) was forgotten, which resulted in the sign error in (1.11).

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